

**WHAT IS CLAIMED IS:**

1. A composition for durable non-permanent shaping of least one keratinous fiber or durable retention of a non-permanent shape of least one keratinous fiber comprising:

(a) at least one compound comprising at least one C<sub>5</sub> to C<sub>7</sub> saccharide unit substituted with at least one amino group; and

(b) at least one film forming agent,

wherein said at least one compound and said at least one film forming agent are present in an amount effective to impart a durable non-permanent shape to said at least one keratinous fiber or to durably retain a non-permanent shape of said at least one keratinous fiber.

2. A composition according to claim 1, wherein said at least one film forming agent is chosen from cationic polymers.

3. A composition according to claim 2, wherein said cationic polymers are chosen from polyquaternium-16, polyquaternium-46 and polyquaternium-44.

4. A composition according to claim 1, wherein said at least one film forming agent is chosen from nonionic polymers.

5. A composition according to claim 4, wherein said nonionic polymers are chosen from:

(i) polymers derived from (1) corn starch and (2) polyvinylpyrrolidone; and

(ii) copolymers derived from (1) vinyl acetate and (2) vinylpyrrolidone.

6. A composition according to claim 1, wherein said at least one film forming agent is chosen from anionic polymers.

7. A composition according to claim 6, wherein said anionic polymers are chosen from:

- (i) polymers derived from (1) vinyl acetate, (2) crotonic acid and (3) vinyl neodecanoate;
- (ii) polymers derived from (1) acrylic acid, (2) acrylates, (3) hydroxyacrylates and (4) succinic acid; and
- (iii) polymers derived from at least two different monomers each chosen from acrylic acid, methacrylic acid, esters of acrylic acid, and esters of methacrylic acid.

8. A composition according to claim 6, wherein said anionic polymers are neutralized.

9. A composition according to claim 1, wherein said at least one film forming agent is present in said composition in an amount ranging from 0.01% to 30% by weight relative to the total weight of the composition.

10. A composition according to claim 9, wherein said at least one film forming agent is present in said composition in an amount ranging from 0.1% to 10% by weight relative to the total weight of the composition.

11. A composition according to claim 1, wherein said at least one amino group is chosen from unsubstituted amino groups and substituted amino groups.

12. A composition according to claim 1, wherein said at least one C<sub>5</sub> to C<sub>7</sub>

saccharide unit is further substituted with at least one group different from said at least one amino group.

13. A composition according to claim 1, wherein said at least one C<sub>5</sub> to C<sub>7</sub> saccharide unit is substituted with said at least one amino group at C1 of said saccharide unit.

5 14. A composition according to claim 1, wherein said at least one C<sub>5</sub> to C<sub>7</sub> saccharide unit is substituted with said at least one amino group at C2 of said saccharide unit.

15. A composition to claim 1, wherein said at least one compound is chosen from C<sub>5</sub> monosaccharides substituted with at least one amino group, C<sub>6</sub> monosaccharides substituted with at least one amino group, C<sub>7</sub> monosaccharides substituted with at least one amino group, polymers comprising at least one C<sub>5</sub> monosaccharide substituted with at least one amino group, polymers comprising at least one C<sub>6</sub> monosaccharide substituted with at least one amino group, polymers comprising at least one C<sub>7</sub> monosaccharide substituted with at least one amino group, and glycoproteins comprising at least one C<sub>5</sub> to C<sub>7</sub> saccharide unit substituted with at least one amino group.

16. A composition according to claim 15, wherein said C<sub>5</sub> monosaccharides substituted with at least one amino group are chosen from pentosamines.

17. A composition according to claim 16, wherein said pentosamines are chosen from aldopentosamines and ketopentosamines.

18. A composition according to claim 17, wherein said pentosamines are

chosen from xylosamine, arabinosamine, lyxosamine, ribosamine, ribulosamine and xylulosamine.

19. A composition according to claim 15, wherein said C<sub>6</sub> monosaccharides substituted with at least one amino group are chosen from hexosamines.

20. A composition according to claim 19, wherein said hexosamines are  
5 chosen from aldohexosamines and ketohexosamines.

21. A composition according to claim 20, wherein hexosamines are chosen from glucosamine, galactosamine, allosamine, altrosamine, mannosamine, gulosamine, idosamine, galactosamine, and talosamine.

22. A composition according to claim 15, wherein said C<sub>7</sub> monosaccharides substituted with at least one amino group are chosen from heptosamines.  
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23. A composition according to claim 22, wherein said heptosamines are chosen from aldoheptosamines and ketoheptosamines.

24. A composition according to claim 1, wherein said at least one compound is chosen from oligosaccharides derived from said at least one C<sub>5</sub> to C<sub>7</sub> saccharide unit substituted with at least one amino group.  
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25. A composition according to claim 1, wherein said at least one C<sub>5</sub> to C<sub>7</sub> saccharide unit is chosen from furanoses and derivatives thereof.

26. A composition according to claim 1, wherein said at least one C<sub>5</sub> to C<sub>7</sub> saccharide unit is chosen from derivatives of C<sub>5</sub> to C<sub>7</sub> saccharide units.

27. A composition according to claim 26, wherein said derivatives of C<sub>5</sub> to C<sub>7</sub>  
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saccharide units are chosen from imine derivatives of C<sub>5</sub> to C<sub>7</sub> saccharide units, hemiacetal derivatives of C<sub>5</sub> to C<sub>7</sub> saccharide units, hemiketal derivatives of C<sub>5</sub> to C<sub>7</sub> saccharide units, and oxidized derivatives of C<sub>5</sub> to C<sub>7</sub> saccharide units.

28. A composition according to claim 26, wherein said derivatives of C<sub>5</sub> to C<sub>7</sub> saccharide units are further substituted with at least one group different from said at least one amino group.

29. A composition according to claim 1, wherein said at least one compound is chosen from lyxosylamine.

30. A composition according to claim 1, wherein said at least one compound is chosen from glucosamine.

31. A composition according to claim 1, wherein said at least one compound is chosen from galactosamine.

32. A composition according to claim 1, wherein said at least one compound is present in said composition in an amount ranging from 0.01% to 10% by weight relative to the total weight of the composition.

33. A composition according to claim 32, wherein said at least one compound is present in said composition in an amount ranging from 0.1% to 5% by weight relative to the total weight of the composition.

34. A composition according to claim 1, wherein said composition further comprises at least one additional sugar, said at least one additional sugar being different from said at least one compound comprising at least one C<sub>5</sub> to C<sub>7</sub> saccharide unit substituted with at least one amino group.

35. A composition according to claim 34, wherein said at least one additional sugar is chosen from monosaccharides, oligosaccharides and polysaccharides.

36. A composition according to claim 35, wherein said monosaccharides are chosen from hexoses.

37. A composition according to claim 36, wherein said hexoses are chosen from allose, altrose, glucose, mannose, gulose, idose, galactose, talose, sorbose, psicose, fructose, and tagatose.

38. A composition according to claim 34, wherein said at least one additional sugar is present in said composition in an amount ranging from 0.01% to 10% by weight relative to the total weight of the composition.

39. A composition according to claim 38, wherein said at least one additional sugar is present in said composition in an amount ranging from 0.1% to 5% by weight relative to the total weight of the composition.

40. A composition according to claim 1, wherein said composition is in the form of a liquid, oil, paste, stick, dispersion, emulsion, lotion, gel, or cream.

41. A composition according to claim 1, wherein said at least one keratinous fiber is hair.

42. A composition according to claim 1, further comprising at least one suitable additive chosen from anionic surfactants, cationic surfactants, nonionic surfactants, amphoteric surfactants, fragrances, penetrating agents, antioxidants, sequestering agents, opacifying agents, solubilizing agents, emollients, colorants,

screening agents, preserving agents, proteins, vitamins, silicones, polymers, plant oils, mineral oils, and synthetic oils.

43. A composition according to claim 1, wherein said composition is heat-activated.

44. A method for durable non-permanent shaping of at least one keratinous fiber or for durable retention of a non-permanent shape of at least one keratinous fiber comprising:

applying to said at least one keratinous fiber a composition comprising:

(a) at least one compound comprising at least one C<sub>5</sub> to C<sub>7</sub> saccharide unit substituted with at least one amino group, and

(b) at least one film forming agent; and

heating said at least one keratinous fiber;

wherein said at least one compound and said at least one film forming agent are present in an amount effective to impart a durable non-permanent shape to said at least one keratinous fiber or to durably retain a non-permanent shape of said at least one keratinous fiber, and

further wherein said composition is applied prior to said heating or during said heating.

45. A method according to claim 44, further comprising wetting said at least one keratinous fiber with water prior to said application.

46. A method according to claim 44, further comprising shampooing said at least one keratinous fiber subsequent to said heating.

47. A method according to claim 46, further comprising rinsing said at least one keratinous fiber subsequent to said shampooing.

48. A method according to claim 44, wherein said composition is applied prior to and during said heating.

49. A method according to claim 44, wherein said at least one film forming agent is chosen from film forming polymers and film forming resins.

50. A method according to claim 49, wherein said film forming polymers are chosen from cationic polymers.

51. A method according to claim 50, wherein said cationic polymers are chosen from polyquaternium-16, polyquaternium-46 and polyquaternium-44.

52. A method according to claim 49, wherein film forming polymers are chosen from nonionic polymers.

53. A method according to claim 52, wherein said nonionic polymers are chosen from:

- (i) polymers derived from (1) corn starch and (2) polyvinylpyrrolidone; and
- (ii) copolymers derived from (1) vinyl acetate and (2) vinylpyrrolidone.

54. A method according to claim 49, wherein said film forming polymers are chosen from anionic polymers.

55. A method according to claim 54, wherein said anionic polymers are chosen from:

- (i) polymers derived from (1) vinyl acetate, (2) crotonic acid and (3) vinyl neodecanoate;



- (ii) polymers derived from (1) acrylic acid, (2) acrylates, (3) hydroxyacrylates and (4) succinic acid; and
- (iii) polymers derived from at least two different monomers each chosen from acrylic acid, methacrylic acid, esters of acrylic acid and esters of methacrylic acid.

5           56.    A method according to claim 54, wherein said anionic polymers are neutralized.

57.    A method according to claim 44, wherein said at least one film forming agent is present in said composition in an amount ranging from 0.01% to 30% by weight relative to the total weight of the composition.

10           58.    A method according to claim 57, wherein said at least one film forming agent is present in said composition in an amount ranging from 0.1% to 10% by weight relative to the total weight of the composition.

59.    A method according to claim 44, wherein said at least one amino group is chosen from unsubstituted amino groups and substituted amino groups.

15           60.    A method according to claim 44, wherein said at least one C<sub>5</sub> to C<sub>7</sub> saccharide unit is further substituted with at least one group different from said at least one amino group.

20           61.    A method according to claim 44, wherein said at least one C<sub>5</sub> to C<sub>7</sub> saccharide unit is substituted with said at least one amino group at C1 of said saccharide unit.

62.    A method according to claim 44, wherein said at least one C<sub>5</sub> to C<sub>7</sub>

saccharide unit is substituted with said at least one amino group at C2 of said saccharide unit.

63. A method according to claim 44, wherein said at least one compound is chosen from C<sub>5</sub> monosaccharides substituted with at least one amino group, C<sub>6</sub> monosaccharides substituted with at least one amino group, C<sub>7</sub> monosaccharides substituted with at least one amino group, polymers comprising at least one C<sub>5</sub> monosaccharide substituted with at least one amino group, polymers comprising at least one C<sub>6</sub> monosaccharide substituted with at least one amino group, polymers comprising at least one C<sub>7</sub> monosaccharide substituted with at least one amino group, and glycoproteins comprising at least one C<sub>5</sub> to C<sub>7</sub> saccharide unit substituted with at least one amino group.

64. A method according to claim 63, wherein said C<sub>5</sub> monosaccharides substituted with at least one amino group are chosen from pentosamines.

65. A method according to claim 64, wherein said pentosamines are chosen from aldopentosamines and ketopentosamines.

66. A method according to claim 65, wherein said pentosamines are chosen from xylosamine, arabinosamine, lyxosamine, ribosamine, ribulosamine and xylulosamine.

67. A method according to claim 63, wherein said C<sub>6</sub> monosaccharides substituted with at least one amino group are chosen from hexosamines.

68. A method according to claim 67, wherein said hexosamines are chosen from aldohexosamines and ketohexosamines.

69. A method according to claim 68, wherein hexosamines are chosen from glucosamine, galactosamine, allosamine, altrosamine, mannosamine, gulosamine, idosamine, galactosamine, and talosamine.

70. A method according to claim 63, wherein said C<sub>7</sub> monosaccharides substituted with at least one amino group are chosen from heptosamines.

5 71. A method according to claim 70, wherein said heptosamines are chosen from aldoheptosamines and ketoheptosamines.

72. A method according to claim 44, wherein said at least one compound is chosen from oligosaccharides derived from said at least one C<sub>5</sub> to C<sub>7</sub> saccharide unit substituted with at least one amino group.

10 73. A method according to claim 44, wherein said at least one C<sub>5</sub> to C<sub>7</sub> saccharide unit is chosen from furanoses and derivatives thereof.

74. A method according to claim 44, wherein said at least one C<sub>5</sub> to C<sub>7</sub> saccharide unit is chosen from derivatives of C<sub>5</sub> to C<sub>7</sub> saccharide units.

15 75. A method according to claim 74, wherein said derivatives of C<sub>5</sub> to C<sub>7</sub> saccharide units are chosen from imine derivatives of C<sub>5</sub> to C<sub>7</sub> saccharide units, hemiacetal derivatives of C<sub>5</sub> to C<sub>7</sub> saccharide units, hemiketal derivatives of C<sub>5</sub> to C<sub>7</sub> saccharide units, and oxidized derivatives of C<sub>5</sub> to C<sub>7</sub> saccharide units.

20 76. A method according to claim 74, wherein said derivatives of C<sub>5</sub> to C<sub>7</sub> saccharide units are further substituted with at least one group different from said at least one amino group.

77. A method according to claim 44, wherein said at least one compound is chosen from lyxosylamine.

78. A method according to claim 44, wherein said at least one compound is chosen from glucosamine.

79. A method according to claim 44, wherein said at least one compound is chosen from galactosamine.

80. A method according to claim 44, wherein said at least one compound is present in said composition in an amount ranging from 0.01% to 10% by weight relative to the total weight of the composition.

81. A method according to claim 80, wherein said at least one compound is present in said composition in an amount ranging from 0.1% to 5% by weight relative to the total weight of the composition.

82. A method according to claim 44, wherein said composition further comprises at least one additional sugar, said at least one additional sugar being different from said at least one compound comprising at least one C<sub>5</sub> to C<sub>7</sub> saccharide unit substituted with at least one amino group and derivatives thereof.

83. A method according to claim 82, wherein said at least one additional sugar is chosen from monosaccharides, oligosaccharides and polysaccharides.

84. A method according to claim 83, wherein said monosaccharides are chosen from hexoses.

85. A method according to claim 84, wherein said hexoses are chosen from  
allose, altrose, glucose, mannose, gulose, idose, galactose, talose, sorbose, psicose,  
fructose, and tagatose.

86. A method according to claim 82, wherein said at least one additional  
sugar is present in said composition in an amount ranging from 0.01% to 10% by  
weight relative to the total weight of the composition.

87. A method according to claim 86, wherein said at least one additional  
sugar is present in said composition in an amount ranging from 0.1% to 5% by weight  
relative to the total weight of the composition.

88. A method according to claim 44, wherein said composition is in the form  
of a liquid, oil, paste, stick, dispersion, emulsion, lotion, gel, or cream.

89. A method according to claim 44, wherein said at least one keratinous fiber  
is hair.

90. A method according to claim 44, wherein said composition further  
comprises at least one suitable additive chosen from anionic surfactants, cationic  
surfactants, nonionic surfactants, amphoteric surfactants, fragrances, penetrating  
agents, antioxidants, sequestering agents, opacifying agents, solubilizing agents,  
emollients, colorants, screening agents, preserving agents, proteins, vitamins, silicones,  
polymers, plant oils, mineral oils, and synthetic oils.

91. A method according to claim 44, wherein said composition imparts  
a durable non-permanent shape to said at least one keratinous fiber and durably retains  
a non-permanent shape of said at least one keratinous fiber.

92. A method for durable non-permanent shaping of at least one keratinous fiber or for durable retention of a non-permanent shape of at least one keratinous fiber comprising:

applying to said at least one keratinous fiber a composition comprising at least one compound comprising at least one C<sub>5</sub> to C<sub>7</sub> saccharide unit substituted with at least one amino group; and

heating said at least one keratinous fiber;

wherein said at least one compound is present in an amount effective to impart a durable non-permanent shape to said at least one keratinous fiber or to durably retain a non-permanent shape of said at least one keratinous fiber, and

further wherein said composition is applied prior to said heating or during said heating.

93. A method according to claim 92, further comprising wetting said at least one keratinous fiber with water prior to said application.

94. A method according to claim 92, further comprising shampooing said at least one keratinous fiber subsequent to said heating.

95. A method according to claim 94, further comprising rinsing said at least one keratinous fiber subsequent to said shampooing.

96. A method according to claim 92, wherein said composition is applied prior to and during said heating.

97. A method according to claim 92, wherein said at least one amino group is chosen from unsubstituted amino groups and substituted amino groups.

98. A method according to claim 92, wherein said at least one C<sub>5</sub> to C<sub>7</sub> saccharide unit is further substituted with at least one group different from said at least one amino group.

99. A method according to claim 92, wherein said at least one C<sub>5</sub> to C<sub>7</sub> saccharide unit is substituted with said at least one amino group at C1 of said  
5 saccharide unit.

100. A method according to claim 92, wherein said at least one C<sub>5</sub> to C<sub>7</sub> saccharide unit is substituted with said at least one amino group at C2 of said saccharide unit.

101. A method according to claim 92, wherein said at least one compound is  
10 chosen from C<sub>5</sub> monosaccharides substituted with at least one amino group, C<sub>6</sub> monosaccharides substituted with at least one amino group, C<sub>7</sub> monosaccharides substituted with at least one amino group, polymers comprising at least one C<sub>5</sub> monosaccharide substituted with at least one amino group, polymers comprising at least one C<sub>6</sub> monosaccharide substituted with at least one amino group, polymers  
15 comprising at least one C<sub>7</sub> monosaccharide substituted with at least one amino group, and glycoproteins comprising at least one C<sub>5</sub> to C<sub>7</sub> saccharide unit substituted with at least one amino group.

102. A method according to claim 101, wherein said C<sub>5</sub> monosaccharides substituted with at least one amino group are chosen from pentosamines.

20 103. A method according to claim 102, wherein said pentosamines are chosen from aldopentosamines and ketopentosamines.

104. A method according to claim 103, wherein said pentosamines are chosen from xylosamine, arabinosamine, lyxosamine, ribosamine, ribulosamine and xylulosamine.

105. A method according to claim 101, wherein said C<sub>6</sub> monosaccharides substituted with at least one amino group are chosen from hexosamines.

5 106. A method according to claim 105, wherein said hexosamines are chosen from aldohexosamines and ketohexosamines.

107. A method according to claim 106, wherein said hexosamines are chosen from glucosamine, galactosamine, allosamine, altrosamine, mannosamine, gulosamine, idosamine, galactosamine, and talosamine.

10 108. A method according to claim 101, wherein said C<sub>7</sub> monosaccharides substituted with at least one amino group are chosen from heptosamines.

109. A method according to claim 108, wherein said heptosamines are chosen from aldoheptosamines and ketoheptosamines.

15 110. A method according to claim 92, wherein said at least one compound is chosen from oligosaccharides derived from said at least one C<sub>5</sub> to C<sub>7</sub> saccharide unit substituted with at least one amino group.

111. A method according to claim 92, wherein said at least one C<sub>5</sub> to C<sub>7</sub> saccharide unit is chosen from furanoses and derivatives thereof.

20 112. A method according to claim 92, wherein said at least one C<sub>5</sub> to C<sub>7</sub> saccharide unit is chosen from derivatives of C<sub>5</sub> to C<sub>7</sub> saccharide units.

113. A method according to claim 112, wherein said derivatives of C<sub>5</sub> to C<sub>7</sub>



saccharide units are chosen from imine derivatives of C<sub>5</sub> to C<sub>7</sub> saccharide units, hemiacetal derivatives of C<sub>5</sub> to C<sub>7</sub> saccharide units, hemiketal derivatives of C<sub>5</sub> to C<sub>7</sub> saccharide units, and oxidized derivatives of C<sub>5</sub> to C<sub>7</sub> saccharide units.

114. A method according to claim 112, wherein said derivatives of C<sub>5</sub> to C<sub>7</sub> saccharide units are further substituted with at least one group different from said at least one amino group.

115. A method according to claim 92, wherein said at least one compound is chosen from lyxosylamine.

116. A method according to claim 92, wherein said at least one compound is chosen from glucosamine.

117. A method according to claim 92, wherein said at least one compound is chosen from galactosamine.

118. A method according to claim 92, wherein said at least one compound is present in said composition in an amount ranging from 0.01% to 10% by weight relative to the total weight of the composition.

119. A method according to claim 118, wherein said at least one compound is present in said composition in an amount ranging from 0.1% to 5% by weight relative to the total weight of the composition.

120. A method according to claim 92, wherein said composition further comprises at least one additional sugar, said at least one additional sugar being different from said at least one compound comprising at least one C<sub>5</sub> to C<sub>7</sub> saccharide unit substituted with at least one amino group and derivatives thereof.

121. A method according to claim 120, wherein said at least one additional sugar is chosen from monosaccharides, oligosaccharides and polysaccharides.

122. A method according to claim 121, wherein said monosaccharides are chosen from hexoses.

123. A method according to claim 122, wherein said hexoses are chosen from  
5    allose, altrose, glucose, mannose, gulose, idose, galactose, talose, sorbose, psicose, fructose, and tagatose.

124. A method according to claim 120, wherein said at least one additional sugar is present in said composition in an amount ranging from 0.01% to 10% by weight relative to the total weight of the composition.

125. A method according to claim 124, wherein said at least one additional  
10    sugar is present in said composition in an amount ranging from 0.1% to 5% by weight relative to the total weight of the composition.

126. A method according to claim 92, wherein said composition is in the form of a liquid, oil, paste, stick, dispersion, emulsion, lotion, gel, or cream.

127. A method according to claim 92, wherein said at least one keratinous fiber  
15    is hair.

128. A method according to claim 92, wherein said composition further  
comprises at least one suitable additive chosen from anionic surfactants, cationic  
surfactants, nonionic surfactants, amphoteric surfactants, fragrances, penetrating  
20    agents, antioxidants, sequestering agents, opacifying agents, solubilizing agents,

emollients, colorants, screening agents, preserving agents, proteins, vitamins, silicones, polymers, plant oils, mineral oils, and synthetic oils.

129. A method according to claim 92, wherein said composition imparts a durable non-permanent shape to said at least one keratinous fiber and durably retains a non-permanent shape of said at least one keratinous fiber.

5 130. A composition for durable non-permanent shaping of least one keratinous fiber or durable retention of a non-permanent shape of least one keratinous fiber comprising at least one compound comprising at least one C<sub>5</sub> to C<sub>7</sub> saccharide unit substituted with at least one amino group, wherein said at least one compound is present in an amount effective to impart a durable non-permanent shape to said at least one keratinous fiber or to durably retain a non-permanent shape of said at least one keratinous fiber.

131. A composition according to claim 130, wherein said at least one amino group is chosen from unsubstituted amino groups and substituted amino groups.

15 132. A composition according to claim 130, wherein said at least one C<sub>5</sub> to C<sub>7</sub> saccharide unit is further substituted with at least one group different from said at least one amino group.

133. A composition according to claim 130, wherein said at least one C<sub>5</sub> to C<sub>7</sub> saccharide unit is substituted with said at least one amino group at C1 of said saccharide unit.

20 134. A composition according to claim 130, wherein said at least one C<sub>5</sub> to C<sub>7</sub>

saccharide unit is substituted with said at least one amino group at C2 of said saccharide unit.

135. A composition to claim 130, wherein said at least one compound is chosen from C<sub>5</sub> monosaccharides substituted with at least one amino group, C<sub>6</sub> monosaccharides substituted with at least one amino group, C<sub>7</sub> monosaccharides substituted with at least one amino group, polymers comprising at least one C<sub>5</sub> monosaccharide substituted with at least one amino group, polymers comprising at least one C<sub>6</sub> monosaccharide substituted with at least one amino group, polymers comprising at least one C<sub>7</sub> monosaccharide substituted with at least one amino group, and glycoproteins comprising at least one C<sub>5</sub> to C<sub>7</sub> saccharide unit substituted with at least one amino group.

136. A composition according to claim 135, wherein said C<sub>5</sub> monosaccharides substituted with at least one amino group are chosen from pentosamines.

137. A composition according to claim 136, wherein said pentosamines are chosen from aldopentosamines and ketopentosamines.

138. A composition according to claim 136, wherein said pentosamines are chosen from xylosamine, arabinosamine, lyxosamine, ribosamine, ribulosamine and xylulosamine.

139. A composition according to claim 135, wherein said C<sub>6</sub> monosaccharides substituted with at least one amino group are chosen from hexosamines.

140. A composition according to claim 139, wherein said hexosamines are chosen from aldohexosamines and ketohexosamines.

141. A composition according to claim 140, wherein hexosamines are chosen from glucosamine, galactosamine, allosamine, altrosamine, mannosamine, gulosamine, idosamine, galactosamine, and talosamine.

142. A composition according to claim 135, wherein said C<sub>7</sub> monosaccharides substituted with at least one amino group are chosen from heptosamines.

5 143. A composition according to claim 142, wherein said heptosamines are chosen from aldoheptosamines and ketoheptosamines.

144. A composition according to claim 130, wherein said at least one compound is chosen from oligosaccharides derived from said at least one C<sub>5</sub> to C<sub>7</sub> saccharide unit substituted with at least one amino group.

10 145. A composition according to claim 130, wherein said at least one C<sub>5</sub> to C<sub>7</sub> saccharide unit is chosen from furanoses and derivatives thereof.

146. A composition according to claim 130, wherein said at least one C<sub>5</sub> to C<sub>7</sub> saccharide unit is chosen from derivatives of C<sub>5</sub> to C<sub>7</sub> saccharide units.

15 147. A composition according to claim 146, wherein said derivatives of C<sub>5</sub> to C<sub>7</sub> saccharide units are chosen from imine derivatives of C<sub>5</sub> to C<sub>7</sub> saccharide units, hemiacetal derivatives of C<sub>5</sub> to C<sub>7</sub> saccharide units, hemiketal derivatives of C<sub>5</sub> to C<sub>7</sub> saccharide units, and oxidized derivatives of C<sub>5</sub> to C<sub>7</sub> saccharide units.

20 148. A composition according to claim 146, wherein said derivatives of C<sub>5</sub> to C<sub>7</sub> saccharide units are further substituted with at least one group different from said at least one amino group.

149. A composition according to claim 130, wherein said at least one compound is chosen from lyxosylamine.

150. A composition according to claim 130, wherein said at least one compound is chosen from glucosamine.

151. A composition according to claim 130, wherein said at least one compound is chosen from galactosamine.

152. A composition according to claim 130, wherein said at least one compound is present in said composition in an amount ranging from 0.01% to 10% by weight relative to the total weight of the composition.

153. A composition according to claim 152, wherein said at least one compound is present in said composition in an amount ranging from 0.1% to 5% by weight relative to the total weight of the composition.

154. A composition according to claim 130, wherein said composition further comprises at least one additional sugar, said at least one additional sugar being different from said at least one compound comprising at least one C<sub>5</sub> to C<sub>7</sub> saccharide unit substituted with at least one amino group.

155. A composition according to claim 154, wherein said at least one additional sugar is chosen from monosaccharides, oligosaccharides and polysaccharides.

156. A composition according to claim 155, wherein said monosaccharides are chosen from hexoses.

157. A composition according to claim 156, wherein said hexoses are chosen from allose, altrose, glucose, mannose, gulose, idose, galactose, talose, sorbose, psicose, fructose, and tagatose.

158. A composition according to claim 154, wherein said at least one additional sugar is present in said composition in an amount ranging from 0.01% to 10% by weight relative to the total weight of the composition.

159. A composition according to claim 158, wherein said at least one additional sugar is present in said composition in an amount ranging from 0.1% to 5% by weight relative to the total weight of the composition.

160. A composition according to claim 130, wherein said composition is in the form of a liquid, oil, paste, stick, dispersion, emulsion, lotion, gel, or cream.

161. A composition according to claim 130, wherein said at least one keratinous fiber is hair.

162. A composition according to claim 130, further comprising at least one suitable additive chosen from anionic surfactants, cationic surfactants, nonionic surfactants, amphoteric surfactants, fragrances, penetrating agents, antioxidants, sequestering agents, opacifying agents, solubilizing agents, emollients, colorants, screening agents, preserving agents, proteins, vitamins, silicones, plant oils, mineral oils, and synthetic oils.

163. A composition according to claim 130, wherein said composition is heat-activated.

164. A kit for durable non-permanent shaping of at least one keratinous

fiber or for durable retention of a non-permanent shape of at least one keratinous fiber  
said kit comprising at least one compartment,

wherein said at least one compartment comprises a composition comprising at  
least one compound comprising at least one C<sub>5</sub> to C<sub>7</sub> saccharide unit substituted with at  
least one amino group, wherein said at least one compound is present in an amount  
5 effective to impart a durable non-permanent shape to said at least one keratinous fiber  
or to durably retain a non-permanent shape of said at least one keratinous fiber.

165. A kit according to claim 164, wherein said composition further  
comprises at least one additional sugar, said at least one additional sugar being  
different from said at least one compound comprising at least one C<sub>5</sub> to C<sub>7</sub> saccharide  
10 unit substituted with at least one amino group.

166. A kit according to claim 164, wherein said composition further  
comprises at least one film forming agent.

167. A kit according to claim 164, further comprising a second compartment  
comprising a composition comprising at least one film forming agent.